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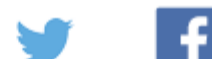
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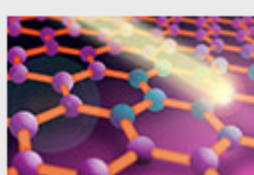
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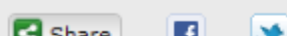
Thursday, August 7, 2014

Light Pulses Control Graphene Behavior



A new way to control how graphene conducts electricity could prompt its use as a broadband light detector. A research team at MIT has found that changing the concentration of electrons in a graphene sheet can change the way the material responds to short, intense light pulses.

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Stanford Computer Optics – XXRapidFrame Camera

Paul Hoess, President of Stanford Computer Optics, talks about their framing camera that was nominated for the 2014 Prism Awards. The XXRapidFrame is a high speed multi-channel framing camera. It consists of a single optical input, an mirror based image splitter and up to eight individually controllable intensified CCD channels.

Global 3-D Scanning Market Could Reach \$4.9 Billion by 2020

The global 3-D scanning market will reach \$4.9 billion by 2020, growing at an annual rate of 12.4 percent, according to a new report from Allied Market Research.

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Laser Threading Creates Large-Scale Metamaterials

A new laser-pulse technique has been used to create light-altering metamaterials in larger quantities than other techniques.

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Sydor Optics
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Necsel Green Laser

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The Necsel green laser array uses frequency-converted technology to offer wavelengths from 530 to 555 nm with 3 W of output from a package less than 1 cubic in.

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ComboSource Laser Diode Controller

Arroyo Instruments
The new 6300 Series ComboSource Laser Diode Controller offers the best of both worlds: a high accuracy, low noise laser driver and a powerful 60W temperature controller, all in one compact instrument.

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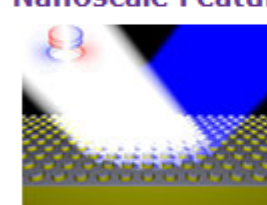
Laser Safety Curtain Systems

Kentek Corp.
Kentek offers the most complete and versatile enclosure systems for applications requiring an eye-safe operating environment for industrial, medical, and research laser systems.

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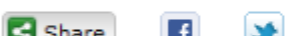
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Nanoscale Features Used to Color Plastics



A team from the Technical University of Denmark has found a more environmentally friendly way to produce colored plastics, using the shapes of materials rather than conventional dyes and pigments.

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Low-Temperature Fabrication Process Yields Superblack Material

A novel superblack material can absorb 99.96 percent of incident light. Its developers say the carbon nanotube technology could enhance optical devices like apertures and MEMS sensors.

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Meta-Atoms Alter Light Polarization

A new metamaterial that is deformed by light while altering its polarization could become a tool for developing photonic circuits.

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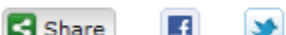
In this edition of the industry's **premier weekly newscast**: Meta-atoms alter light polarization, Spectrometers travel with the next Mars Rover, a wearable device detects diabetes complication, and Managing Web Editor James Lowe talks with Industrial Photonics Contributing Editor Hank Hogan.

Imagers, Spectrometers to Travel with Next Mars Rover



Imaging and spectroscopy equipment aboard an unmanned NASA rover to be sent to Mars in 2020 will help scientists explore the Red Planet in unprecedented detail.

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Conexant a Finalist for 21st High-Tech Innovation Awards

Conexant Systems Inc. has been named a finalist in the semiconductor category of the Orange County Technology Alliance annual High-Tech Innovation Awards.

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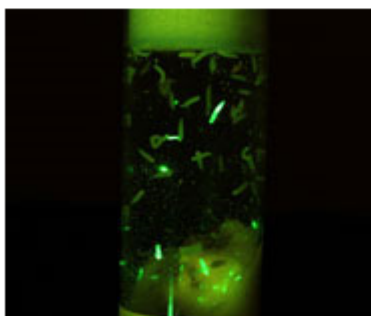
Army Develops Multiwavelength Laser, Countermeasure

A new optical system aims to protect soldiers using magnification optics against eye-damaging multiwavelength lasers.

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WEBINAR



New Directions in Microscopy Illumination

Wednesday, August 13, 2014 1:00 PM - 2:00 PM EDT

FREE WEBINAR

Part I - Accelerating spectral pathology with QCL imaging
Dr. Michael Walsh of the University of Illinois at Chicago will discuss the impact of new, broadly tunable mid-infrared quantum cascade lasers on microscopy.

Part II - New approaches to fluorescence stereo microscopy
Dr. John Celenza of Boston University will discuss research applications using the green fluorescent protein reporter to monitor plant defense responses. Dr. Casey Roehrig of Harvard University will illustrate the use of fluorescence as a powerful tool for undergraduates to study gene expression and protein localization. Jessie Herbert of the University of Montana Spectrum Discovery Area will demonstrate how fluorescence enlivens community outreach in science with hands-on experiments.



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Agilent Technologies, Inc., Chemical Analysis

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